

**THE USE OF INTERNET PURCHASING AMONG
POSTGRADUATE STUDENTS IN UUM**

**A Thesis Submitted to the Graduate School in
Partial Fulfillment of the Requirement for the
Degree of Master of Science (Management)
University Utara Malaysia**

By

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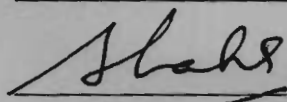
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ABSTRACT

The general purpose of this study was to find out whether a relationship between attitudes, subjective norm, perceived behavioral control and internet purchasing of postgraduate students.

The significant positive relationships between attitudes, subjective norm, perceived behavioral control and internet purchasing offer a clear indication of the importance of features to explain consumer purchase behavior. Hence, this study aims to propose, operationalize, and empirically examine an extended model (i.e. with the inclusion of self-identity) that explains and predicts consumer purchase behavior. The result of correlation, linear regression and multiple regressions in assessing the variables or the empirical relationship between attitudes, subjective norm, perceived behavioral control contribute were positively related to behavior as hypothesized. The positive association among all independent variables to dependent variable (adj. $r^2=80\%$) was supported.

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CHAPTER 1

INTRODUCTION

1.1 Background of the Study

Since the discovery of the internet as a new communication medium it has become a part of the strategy of firms. The internet has been largely used in management: it works as an advertising medium for firms to include in their campaigns, as a distribution channel and as a source of information. Internet application to the development of diverse firm strategies is a practice that has come to be called e-commerce.

Basically, the internet added-value resides in its ability to contribute to cost reduction associated to communication and transaction (Boyd and Spekman, 2001; Porter, 2001; De Boer et al., 2002). The internet allows the access to a great amount of information with lower costs of time and money than those derived from the use of other tools (Boyle and Alwitt, 1999; Min and Galle, 1999; Avlonitis and Karayanni, 2000; Tang et al., 2001), both inside and outside the organization. Inside the firm, the development of the intranet can greatly facilitate the transmission of information among its members (Goles and Hirschheim, 2007; Osmonbekov et al., 2002).

Outside the organization, the network does not only represent a source of information, but also contributes to improve the relationships among firms (Anandarajan et al., 2005; Boyle and Alwitt, 2000; Boyd and Spekman, 2001; Rao, 2002). In this sense, the

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REFERENCE

- Ajzen, I. (1985). From intentions to actions: A theory of planned behavior. In J. Kuhl & J. Beckmann (Eds.), *Action control: From cognition to behavior* (pp. 11-39). New York: Springer-Verlag.
- Ajzen, I. (1991), "The Theory of Planned Behavior", *Organizational Behavior and Human Decision Processes*, Vol. 50, Iss. 2, pp. 179-212.
- Ajzen, I. and Driver, B. L. (1992b), "Contingent Value Measurement: On the Nature and Meaning of Willingness to Pay", *Journal of Consumer Psychology*, Vol. 1, No. 4, pp.297-316.
- Ajzen, I. (2002b), "Constructing a TPB Questionnaire: Conceptual and Methodological Considerations" Available:
<http://www.unix.oit.umass.edu/~aizen/pdf/tpb.measurement.pdf> [2005, July 13]
- Ajzen, I. (2002c), "Residual Effects of Past on Later Behavior: Habituation and Reasoned Action Perspectives", *Personality and Social Psychology Review*, Vol. 6, No. 2, pp. 107-122.

Ajzen, I. and Fishbein, M. (2004), "The Influence of Attitudes on Behavior", In Handbook of Attitudes and Attitude Change: Basic Principles, D. Albarracín, B. T. Johnson and M. P. Zanna (Eds.), Mahwah, NJ: Erlbaum, pp. 173-221.

Ahuja, M., Gupta, B. and Raman, P. (2003), "An empirical investigation of online consumer purchasing behavior", *Communications of the ACM*, Vol. 46 No. 12, pp. 145-51.

Anandarajan, M., Anandarajan, A. and Wen, H. (2005), "Extranet: tools for cost control in a value chain framework", *Industrial & Management Data Systems*, Vol. 98 No. 3, pp. 29-38.

Allen, C. T., Machleit, K. A. and Schultz Kleine, S. (1992), "A Comparison of Attitudes and Emotions as Predictors of Behavior at Diverse Levels of Behavioral Experience", *Journal of Consumer Research*, Vol. 18, pp. 493-504.

Armitage, C. J. and Christian, J. (2003), "From Attitudes to Behavior: Basic and Applied Research on the Theory of Planned Behavior", *Current Psychology: Developmental, Learning, Personality, Social*, Vol. 22, No. 3, pp. 187-195.

Armitage, C. J. and Conner, M. (1999a), "Distinguishing Perceptions of Control from Self-Efficacy: Predicting Consumption of A Low-Fat Diet Using The Theory of

Planned Behavior", *Journal of Applied Social Psychology*, Vol. 29, Iss. 1, pp. 72-90.

Armitage, C. J. and Conner, M. (1999b), "The Theory of Planned Behavior: Assessment of Predictive Validity and Perceived Control", *The British Journal of Social Psychology*, Vol. 38, pp. 35-54.

Armitage, C. J. and Conner, M. (2001), "Efficacy of the Theory of Planned Behavior: A Meta-Analytic Review", *The British Journal of Social Psychology*, Vol. 40, pp. 471-499.

Atkin, C. K. (1972). Anticipating communication and mass media information-seeking. *Public Opinion Quarterly*, 72, 188-200.

Axsom, D., Yates, S. M., & Chaiken, S. (1987). Audience response as a heuristic cue in persuasion. *Journal of Personality and Social Psychology*, 53, 30-40.

Backman, D. R. (1999), [Abstract of "Influence of Gender and Ethnicity on Psychosocial Predictors of Healthy Dietary Practices and Exercise Behavior in Adolescents", Ph.D. diss., Loma Linda University], [Electronic], Available: ProQuest/730194871 [2006, July 2].

Bandura, A. (1997), "Self-efficacy: toward a unifying theory of behavioral change", *Psychological Review*, Vol. 84 No. 2, pp. 191-215.

Bandura, A. (1997), "Self-efficacy mechanism in human agency", *American Psychologist*, Vol. 37, pp. 122-47.

Bamberg, S., Ajzen, I. and Schmidt, P. (2003), "Choice of Travel Mode in the Theory of Planned Behavior: The Roles of Past Behavior, Habit, and Reasoned Action", *Basic and Applied Social Psychology*, Vol. 25, No. 3, pp. 175-187.

Baron, R. M. and Kenny, D. A. (1986), "The Moderator-Mediator Variable Distinction in Social Psychological Research: Conceptual, Strategic and Statistical Considerations", *Journal of Personality and Social Psychology*, Vol. 51, No. 6, pp. 1173-1182.

Bearden, W. O. and Etzel, M. J. (1982), "Reference group Influence on Product and Brand Purchase Decisions", *Journal of Consumer Research*, Vol. 9, Iss. 2, pp. 183-194.

Bearden, W. O. and Teel, J. E. (1983), "Selected Determinants of Consumer Satisfaction and Complaint Reports", *Journal of Marketing Research*, Vol. XX, pp. 21-28.

Blanchard, C. M., Rhodes, R. E., Nehl, E., Fisher, J., Sparling, P. and Courneya, K. S. (2003), "Ethnicity and the Theory of Planned Behavior in the Exercise Domain", *American Journal of Health Behavior*, Vol. 27, No. 6, pp. 579-591, [Electronic], Available: ProQuest Medical Library [2005, July 8].

Boyd, E. and Spekman, R. (2001), "Internet usage within B2B relationships and its impact on value creation: a conceptual model and research propositions", available at: <http://papers.ssrNocom/abstract=282521>.

Boyle, B. and Alwitt, L.F. (1999), "Internet use within the US plastics industry", *Industrial Marketing Management*, Vol. 28, pp. 327-41.

Booth-Butterfield, S., & Gutowski, C. (1993). Message modality and source credibility can interact to affect argument processing. *Communication Quarterly*, 41, 77-89.

Cacioppo, J. T., & Petty, R. E. (1982). The need for cognition. *Journal of Personality and Social Psychology*, 24, 116-131.

Cacioppo, J. T., Petty, R. E., & Kao, R. (1986). Central and peripheral routes to persuasion: An individual difference perspective. *Journal of Personality and Social Psychology*, 51, 1032-1043.

Chaiken, S. (1980). Heuristic versus systematic information processing and the use of source versus message cues in persuasion. *Journal of Personality and Social Psychology*, 39, 752-766.

Chaiken, S., & Eagly, A. H. (1983). Communication modality as a determinant of

persuasion: The role of communicator salience. *Journal of Personality and Social Psychology*, 45, 241-256.

Chaiken, S., Giner-Sorella, R., & Chen, S. (1996). Beyond accuracy: Defense and impression motives in heuristic and systematic information processing. In P. M. Gollwitzer & J. A. Bargh (Eds.), *The psychology of action: Linking cognition and motivation to behavior* (pp. 553-578). New York: Guilford Press.

Chaiken, S., & Maheswaran, D. (1994). Heuristic processing can bias systematic processing: Effects of source credibility, argument ambiguity, and task importance on attitude judgment. *Journal of Personality and Social Psychology*, 66, 460-473.

Chiou, J. S. (1998), "The Effects of Attitude, Subjective Norm, and Perceived Behavioral Control on Consumers' Purchase Intentions: The Moderating Effects of Product Knowledge and Attention to Social Comparison information", *Proceedings of National Science Council*, ROC, Vol. 9, No. 2, pp. 298-308, [Electronic] Available: <http://www.nr.stic.gov.tw/ejournal/ProceedingC/v9n2/298-308.pdf> [2005, July 13]

Chiou, J. S., Huang, C. Y. and Chuang, M. C. (2005), "Antecedents of Taiwanese Adolescents' Purchase Intention toward the Merchandise of a Celebrity: The

Moderating Effect of Celebrity Adoration", *The Journal of Social Psychology*, Vol. 145, Iss. 3, pp. 317-332

Choo, H. J., Chung, J. E. and Pysarchik, D. T. (2004), "Antecedents to New Food Product Purchasing Behavior among Innovator Groups in India", *European Journal of Marketing*, Vol. 38, No. 5/6, pp. 608-625, [Electronic], Available: Emerald Group Publishing Limited/0309-0566 [2005, November 25]

Chuchinprakarn, S. (2005), "Application of the Theory of Reasoned Action to On-line Shopping" [Electronic], Available:
<http://herdsa2004.curtin.edu.my/Contributions/RPapers/P057-jt.pdf> [2005, July 18]

Churchill, G. A. Jr. and Surprenant, C. (1982), "An Investigation into the Determinants of Customer Satisfaction", *Journal of Marketing*, Vol. 19, No. 4, pp. 491-504

Conner, M., Kirk, S. F. L., Cade, J. E. and Barrett, J. H. (2001), "Why Do Women Use Dietary Supplements? The Use of the Theory of Planned Behavior to Explore Beliefs About Their Use", *Social Science and Medicine*, Vol. 52, pp. 621-633

Cook, A. J., Kerr, G. N. and Moore, K. (2002), "Attitudes and Intentions towards Purchasing GM Food", *Journal of Economic Psychology*, Vol. 23, Iss. 5, p. 557-572

Courneya, K. S., Bobick, T. M. and Schinke, R. J. (1999), "Does the Theory of Planned Behavior Mediate the Relation between Personality and Exercise Behavior?", *Basic and Applied Social Psychology*, Vol. 21, Iss. 4, pp. 317-324

Cunningham, G. B. and Kwon, H. (2003), "The Theory of Planned Behavior and Intentions to Attend a Sport Event", *Sport Management Review*, Vol. 6, pp. 127-145.

Dodge, J. R., Ford, M. A. and Perko, M. A. (2003), "From Ephedra to Creatine: Using Theory to Respond to Dietary Supplement Use in Young Athletes", *American Journal of Health Studies*, Vol. 18, Iss. 2/3, pp. 111-116

Entman, R. M. (1989). How the media affect what people think: An information processing approach. *Journal of Politics*, 51, 347-370.

Eveland, W. P. Jr. (2001). The cognitive mediation model of learning from the news: Evidence from non-election, off-year election, and presidential election contexts. *Communication Research*, 28, 571-601.

Ex, C. T., Janssens, J. M., & Korzilius, H. P. (2002). Young females' images of motherhood in relation to television viewing. *Journal of Communication*, 52, 955-971.

Febraban (2004), available at: www.febraban.com.br/Arquivo/Servicos/Dadosdosetor/tecnologia_2005_dadossetor.asp (accessed April 15, 2006).

Fishbein, M. (1963), "An Investigation of the Relationships between Beliefs about an Object and the Attitude Toward that Object", *Human Relations*, Vol. 16, pp.233-240.

Fishbein, M. (2000), "The Role of Theory in HIV Prevention", *AIDS Care*, Vol. 12, No. 3, pp. 273-278.

Fishbein, M. and Ajzen, I. (2007), "Attitudes and Opinions", *Annual Review of Psychology*, Vol. 23, pp. 487-545

Fishbein, M. and Ajzen, I. (1997), "Belief, Attitude, Intentions and Behavior: An Introduction to Theory and Research", Addison-Wesley, Reading, MA

Griffin, R. J., Neuwirth, K., Giese, J., & Dunwoody, S. (2002). Linking the heuristic-systematic model and depth of processing. *Communication Research*, 29, 705-732.

Haugtvedt, C. P., & Petty, R. E. (1992). Personality and persuasion: Need for cognition moderates the persistence and resistance of attitude change. *Journal of Personality and Social Psychology*, 63, 308-319.

- Johnson, B. & Eagly, A. H. (1989). Effects of involvement on persuasion: A meta-analysis. *Psychological Bulletin*, 106, 290-314.
- Kosicki, G. M., & McLeod, J. M. (1990). Learning from political news: Effects of media images and information-processing strategies. In S. Kraus (Ed.), *Mass communication and political information processing* (pp. 69-85). Hillsdale, NJ: Erlbaum.
- Lavine, H., Borgida, E., & Sullivan, J. L. (2000). On the relationship between attitude involvement and attitude accessibility: Toward a cognitive-motivational model of political information processing. *Political Psychology*, 21, 81-106.
- Lo, V-h. (1994). Media use, involvement, and knowledge of the Gulf War. *Journalism Quarterly*, 71, 43-54.
- Maheswaran, D., & Meyers-Levy, J. (1990). The influence of message framing and issue involvement. *Journal of Marketing Research*, 27, 361-367.
- Moore, D. L., Hausknecht, D., & Thamodaran, K. (1986). Time compression, response opportunity, and persuasion. *Journal of Consumer Research*, 13, 85-99.
- Nabi, R. L., & Hendriks, A. (2003). The persuasive effect of host and audience

shots in television talk shows. *Journal of Communication*, 71, 527-543.

Nabi, R. L., & Sullivan, J. L. (2001). A cultivation analysis from a theory of reasoned action perspective. *Communication Research*, 28, 802-825.

Neuwirth, K., & Frederick, E. (2004). Peer and social influence on opinion expression: Combining the theories of planned behavior and spiral of silence. *Communication Research*, 31, 669-703.

Neuwirth, K., Frederick, E., & Mayo, C. (2002). Person-effects and heuristic-systematic processing. *Communication Research*, 29, 320-359.

Ohr, D., & Schrott, P. R. (2001). Campaigns and information seeking: Evidence from a German state election. *European Journal of Communication*, 16, 419-449.

O'Keefe, G. F., Mendelsohn, H., & Liu, J. (1976). Voter decision making: 1972 and 1974. *Public Opinion Quarterly*, 40, 320-330.

Perse, E. M. (1990). Media involvement and local news effects. *Journal of Broadcasting & Electronic Media*, 34, 17-36.

Petty, R. E., & Cacioppo, J. T. (1979). Issue involvement can increase or decrease persuasion by enhancing message-relevant cognitive responses. *Journal of*

Personality and Social Psychology, 37, 1915-1926.

Petty, R. E., & Cacioppo, J. T. (1984). The effects of involvement on responses to argument quantity and quality: Central and peripheral routes to persuasion. *Journal of Personality and Social Psychology*, 46, 69-81.

Petty, R. E. & Cacioppo, J. T. (1986). *Communication and persuasion: Central and peripheral routes to attitude change*. New York: Springer-Verlag.

Petty, R. E., Cacioppo, J. T., & Goldman, R. (1981). Personal involvement as a determinant of argument-based persuasion. *Journal of Personality and Social Psychology*, 41, 847-855.

Rhee, J. W., & Cappella, J. N. (1997). The role of political sophistication in learning from news. *Communication Research*, 24, 197-233.

Rubin, A. M. (1984). Ritualized and instrumental television viewing. *Journal of Communication*, 34, 67-77.

Rubin, A. M., & Rubin, R. B. (1982). Older persons' TV viewing patterns and motivations. *Communication Research*, 9, 287-313.

Rubin, R. B., Perse, E. M., & Barbato, C. A. (1988). Conceptualization and

measurement of interpersonal communication motives. *Human Communication Research*, 14, 602-628.

Slater, M. D. (1997). Persuasion processes across receiver goals and message genres. *Communication Theory*, 7, 125-148.

Slater, M. D. (1999). Integrating application of media effects, persuasion, and behavior change theories to communication campaigns: A stages-of-change framework. *Health Communication*, 11, 335-354.

Southwell, B. G. (2005). Between messages and people: A multilevel model of memory for television content. *Communication Research*, 32, 112-140.

Sparks, J. R., Areni, C. S., & Cox, K. C. (1998). An investigation of the effects of language style and communication modality on persuasion. *Communication Monographs*, 65, 108-125.

Tarkiainen, A. and Sundqvist, S. (2005), "Subjective Norm, Attitudes and Intentions of Finnish Consumers in Buying Organic Food", *British Food Journal*, Vol. 107, No. 11, pp. 808-822, [Electronic], Available: Emerald Group Publishing Limited/00070700510629760 [2006, June 23]

Taylor, S. and Todd, P.A. (1995), "Understanding information technology usage: a test of competing models", *Information Systems Research*, Vol. 6 No. 2, pp. 144-76.

Venkatesh, V. and Davis, F.D. (2000), "A theoretical extension of the technology acceptance model: four longitudinal field studies", *Management Science*, Vol. 45 No. 2, pp. 186-204.

Venkatesh, V., Morris, M.G., Davis, G.B. and Davis, F.D. (2003), "User acceptance of information technology: toward a unified view", *MIS Quarterly*, Vol. 27 No. 2, pp. 425-78.

Wu, C., & Shaffer, D. R. (1987). Susceptibility to persuasive appeals as a function of source credibility and prior experience with the attitude object. *Journal of Personality and Social Psychology*, 52, 677-688.

Wood, W., Rhodes, & Biek, M. (1995). Working knowledge and attitude strength: An information processing analysis. In R. Petty & J. Krosnick (Eds.), *Attitude strength: Antecedents and consequences* (pp. 283-313). Hillsdale, NJ: Lawrence Erlbaum.